

Title (en)

METHOD FOR INHIBITING TARNISH FORMATION WHEN CLEANING SILVER WITH ETHER STABILIZED, n-PROPYL BROMIDE-BASED SOLVENT SYSTEMS

Title (de)

VERFAHREN ZUR INHIBIERUNG DES ANLAUFENS VON SILBER WÄHREND DER REINIGUNG MITTELS ETHERSTABILISIERTEM N-PROPYLBROMID

Title (fr)

PROCEDE POUR INHIBER LE TERNISSEMENT LORS DU NETTOYAGE DE L'ARGENT AU MOYEN DE SYSTEMES DE SOLVANTS A BASE DE BROMURE DE N-PROPYLE STABILISES PAR UN ETHER

Publication

EP 1090163 A1 20010411 (EN)

Application

EP 99927383 A 19990609

Priority

- US 9912966 W 19990609
- US 10487298 A 19980625

Abstract (en)

[origin: US5990071A] Silver tarnishing is inhibited when using ether stabilized, n-propyl bromide based cleaning compositions by including a small amount of an acetylenic compound in the compositions.

IPC 1-7

C23G 5/028; **C11D 7/50**

IPC 8 full level

C11D 7/50 (2006.01); **C11D 11/00** (2006.01); **C23G 5/028** (2006.01); **C11D 7/24** (2006.01); **C11D 7/26** (2006.01); **C11D 7/28** (2006.01)

CPC (source: EP KR US)

C11D 7/5018 (2013.01 - EP US); **C23G 5/00** (2013.01 - KR); **C23G 5/028** (2013.01 - EP US); **C11D 7/24** (2013.01 - EP US); **C11D 7/267** (2013.01 - EP US); **C11D 7/28** (2013.01 - EP US); **C11D 2111/22** (2024.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 5990071 A 19991123; CA 2333534 A1 19991229; EP 1090163 A1 20010411; JP 2002519507 A 20020702; JP 4472177 B2 20100602; KR 20010071558 A 20010728; WO 9967446 A1 19991229

DOCDB simple family (application)

US 10487298 A 19980625; CA 2333534 A 19990609; EP 99927383 A 19990609; JP 2000556084 A 19990609; KR 20007014560 A 20001221; US 9912966 W 19990609